S/169/62/000/004/099/103
D290/D302

The relation between the ...

free from distortions due to β, can be found. The method also enables correlation analysis to be used in the study of the structures of inhomogeneous fields for arbitrary values of β. 5 references. [Abstractor's note: Complete translation].

Card 2/2

37421
S/188/62/000/002/007/013
B125/B102

9.9000

AUTHORS: Gusev, V. D., Li Chün

TITLE: Dependence of the measurable parameters of inhomogeneities of the ionosphere on its disturbance

PERIODICAL: Moscow. Universitet. Vestnik. Seriya III. Fizika, astronomiya, no. 2, 1962, 46-50

TEXT: The geometric and kinematic parameters of the inhomogeneities are shown to be independent of the distance z from the reference point to the ionosphere and of the "disturbance factor" β. This finding is based on the analysis of statistical and correlation properties of rapidly fluctuating radio waves scattered in the ionosphere. $u(x,y,z)$ is taken as the field under investigation, and the function $v(x,y,t)$, adjoint to u, is assumed to be unambiguously determined by a Hilbert integral transformation. Thus, u.v, and the amplitude $A(x,y,t)$ of the scattered field can be unambiguously represented by

Card 1/4

Dependence of the measurable ...

$$u = a(x, y, t)\cos(\omega_0 t - k_x x - k_y y) + b(x, y, t)\sin(\omega_0 t - k_x x - k_y y),$$
$$v = a(x, y, t)\sin(\omega_0 t - k_x x - k_y y) - b(x, y, t)\cos(\omega_0 t - k_x x - k_y y),$$
$$A(x, y, t) = \sqrt{u^2 + v^2} = \sqrt{a^2 + b^2}.$$

A is slowly variable as a function of time and space and completely determined by its components a(x,y,t) and b(x,y,t). Under the usually satisfied condition of symmetry of fluctuation spectra for steady and spatially uniform processes, the correlation function of the processes a, a_1 and b, b_1, differing in the coordinate shifts by ξ and η, and having a time difference τ, reads

$$R(\xi, \eta, \tau) = \frac{\overline{a_1 a} - \overline{a}^2}{\sigma^2} = \frac{\overline{b_1 b} - \overline{b}^2}{\sigma^2}, \quad \overline{a_1 b} = \overline{a b_1} = 0.$$

$\sigma^2 = \overline{a^2} - \overline{a}^2 = \overline{b^2} - \overline{b}^2$ is the dispersion of the process. Moreover, $\overline{a} = a_0 \cos\varphi_0$, $\overline{b} = a_0 \sin\varphi_0$, where a_0 denotes the amplitude, and φ_0 the phase

Card 2/4

of the so-called "mirror component." With normal random processes, the correlation function $\rho(\xi, \eta, \tau)$ of the amplitude of the scattered wave can be expanded in a series of hypergeometric functions:

$$\rho(\xi, \eta, \tau) = \frac{\overline{A_1 A} - \overline{A}^2}{\overline{A^2} - \overline{A}^2} = f(\beta, R), \qquad (1);$$

$\beta^2 = a_0^2/2\sigma^2$. The effective width with respect to time of the correlation function of the field amplitude is $\tau_0^2 = F(\beta)/(\delta\omega)^2$ with

$$F(\beta) = 2(1+\beta^2)[1 - K(\beta)],$$

$$K(\beta) = \frac{\pi}{4(1+\beta^2)} e^{-\beta^2}\left\{I_0\left(\frac{\beta^2}{2}\right) + \beta^2\left[I_0\left(\frac{\beta^2}{2}\right) + I_1\left(\frac{\beta^2}{2}\right)\right]\right\}^2.$$

The results permit the correlation processing of the inhomogeneous field structure for any values of β and the determination of the actual spectrum of inhomogeneity dimensions, which is free of distortion by β.

Card 3/4

S/188/62/000/002/007/013
B125/B102

Dependence of the measurable ..,

ASSOCIATION: Kafedra rasprostraneniya radiovoln (Department of the Propagation of Radio Waves)

SUBMITTED: June 20, 1961

Card 4/4

GUSEV, V.D.; KIYANOVSKIY, M.P.

Use of the correlation method. Izv.vys.uch.zav.; fiz. no.4:171-173 '62. (MIRA 15:9)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.
(Ionospheric research)

LI TSZYUN' [Li Chun] ; GUSEV, V. D.

Dependence of the measureable parameters of the non-homogeneities of the ionosphere on its perturbability. Vest.Mosk.un.Ser.3. Fiz.,astron. 17 no.2:46-50 Mr-Ap '62. (MIRA 16:2)

1. Kafedra rasprostaneniya radiovoln Moskovskogo universiteta.
(Ionosphere)

GUSEV, V. D.; MIRKOTAN, S. F.; KIYANOVSKIY, M. P.; BEREZIN, I. B.

"Phase Investigations of the Ionosphere Drifts."

summary to be presented at 13th Gen Assembly, IUGG, Berkeley, Calif, 19-31 Aug 63.

L 9976-65 EWT(l)/EWG(v)/FCC/EEC-4/EEC(t)/EWA(h) Pc-4/Pe-5/Pq-4/Pae-2/Peb/
P1-4 RAEM(a)/ESD(c)/ESD(t) GW/WS

ACCESSION NR: AP4046281 S/0203/64/004/005/0832/0841

AUTHOR: Gaylit, T. A.; Gusev, V. D. 13

TITLE: Spectral characteristics of a field during a diffraction on an irregular screen

SOURCE: Geomagnetizm i aeronomiya, v. 4, no. 5, 1964, 832-841

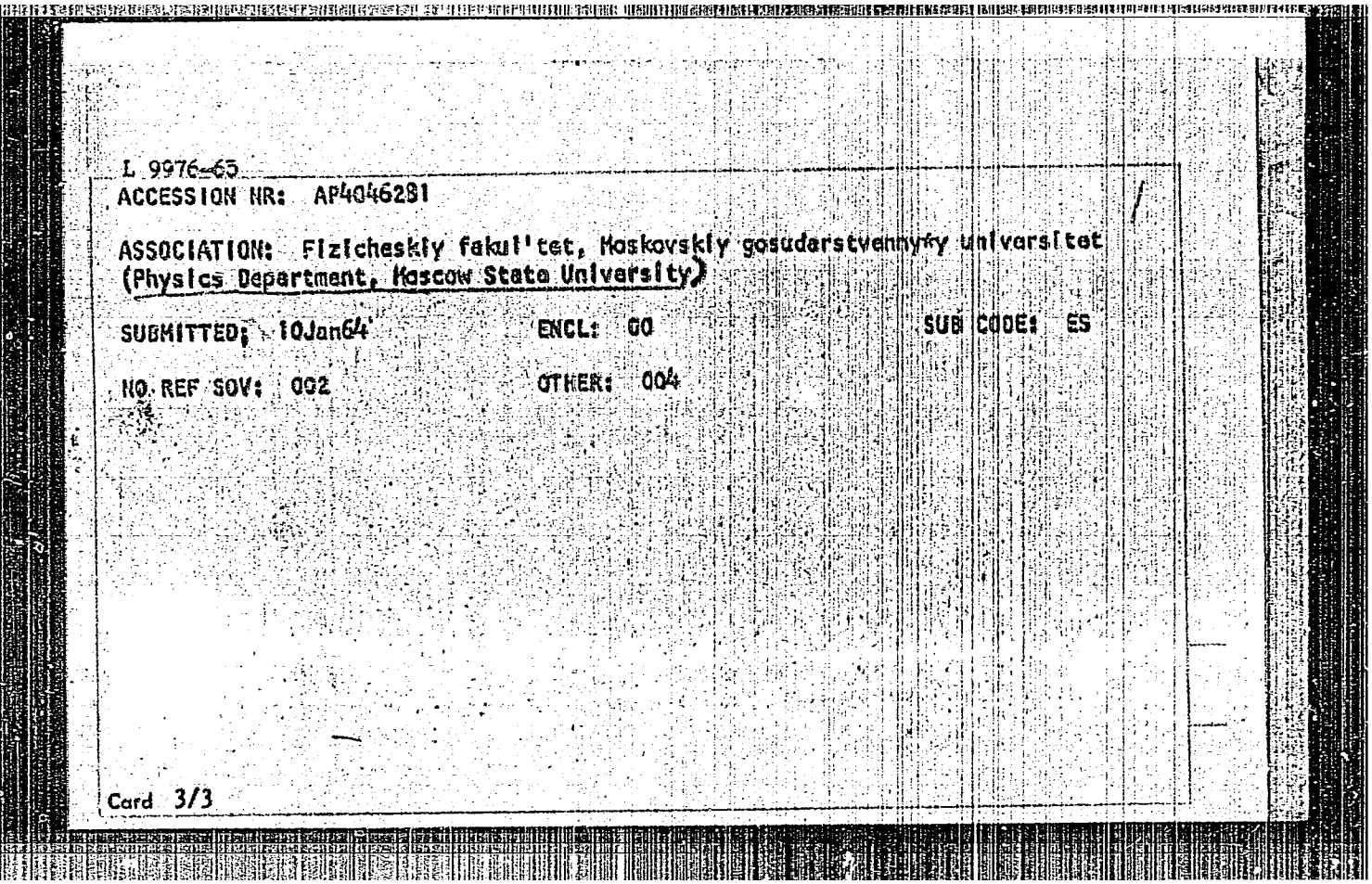
TOPIC TAGS: Fresnel zone, ionosphere 12, ionospheric electromagnetic field

ABSTRACT: The principal source of information on the nonhomogeneous structure of the ionosphere has been the study of the properties of a nonhomogeneous electromagnetic field which is diffracted in the ionosphere and received at the surface. However, the interpretation of these experimental results involves difficulties. The statistical properties of the wave field at the earth's surface are determined by the conditions for propagation in a nonhomogeneous medium and by propagation in the free space from the layer to the earth. The author refers to the field at emergence from the ionosphere as a field on a screen. With further propagation of a wave from the screen to the plane of observation, the statistical characteristics of the random field change appreciably. The spatial correlation function of the true part of the complex amplitude of the field is

Card 1/3

ACCESSION NR: AP4046281

also dependent on the distance L to the screen. In a general case this dependence is complex and is integrated to the end only for $D \gg l$. The properties of the random field are dependent on the value of the parameter D, and also play a major role in problems of diffraction on regular objects. Diffraction on regular limited objects is also characterized by the presence of intensity oscillations of the Fresnel integral type in the diffraction pattern. The problem of diffraction on an irregular screen, together with features in common for all diffraction problems, has a number of peculiarities associated with the presence of two components in the scattered field: coherent and random. This paper, with the foregoing considerations as background, attempts to clarify certain of these peculiarities of the diffraction pattern. Specifically, the spatial energy spectra of field fluctuations and of the square of the amplitude of a field diffracted on an infinite nonhomogeneous screen are expressed at the distance L from the screen through the field spectrum on the screen, determined by the statistical properties of the latter. This dependence is derived for both "weak" and "deep" phase and amplitude screens. When there is a coherent component in the scattered field, the spectrum of the square of the field amplitude, beginning at some distance L from the screen, contains an oscillating term with a frequency which is a multiple of the value of the Fresnel zone. The depth of the oscillations decreases with a decrease in the role of the coherent component in the signal. Orig. art. has: 41 formulas and 2 figures.



L 9976-65
ACCESSION NR: AP4046281

ASSOCIATION: Fizicheskiy fakul'tet, Moskovskiy gosudarstvennyy universitet (Physics Department, Moscow State University)

SUBMITTED: 10Jan64 ENCL: 00 SUB CODE: ES

NO. REF SOV: 002 OTHER: 004

Card 3/3

AUTHOR: Nad', A.A., Gusev, V.D.

113-58-7-9/25

TITLE: Push-Button Control of the Transmission (Knopochnoye upravleniye korobkami peredach)

PERIODICAL: Avtomobil'naya promyshlennost', 1958, Nr 7, pp 18-20 (USSR)

ABSTRACT: The new ZIL-111, automobile which will be released in 1958, has been equipped with a push-button control of the transmission. The experimental model of the M-13 automobile of the Gor'kovskiy avtozavod (Gor'kiy Automobile Plant) also has such a push-button control and the GAZ-13 have this control similar to that of Chrysler and Plymouth types. There is a mechanical (Photo 1) and an electrical (Photo 3) push-button control, the latter experimentally installed in the ZIL-111, where the electromotor, change-over switch and decelerator have been assembled in one unit measuring 240 x 140 x 85 mm. The weight usually does not exceed 1.25 kg. The characteristics are compared with those of American makes. A general recommendation to adopt this type of transmission control for all Soviet light cars must be preceded by comparative experiments with both types of push-button control over an extended period of time. There are 3 photos and 1 schematic diagram.

Card 1/2

Push-Button Control of the Transmission 113-58-7-9/25

ASSOCIATION: Moskovskiy avtozavod imeni Likhacheva (The Moscow Car Plant imeni Likhachev)

1. Automobiles--Operation 2. Automatic transmissions--Control systems

Card 2/2

GUSEV, V.D.; PASSCHAK, V.K.

Reconstruction of brush holders of a slip ring. Stor. rats. predl. vnedr. v proizv. no.2:46-47 '61. (MIRA 14:7)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Brushes, Electric)

GUSEV, V.D.

From the experience on automation in a coal preparation plant. Koks i khim. no.9:21-24 '61. (MIRA 15:1)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Magnitogorsk--Coal preparation plants--Equipment and supplies)
(Automatic control)

GUSEV, V.D.

Device for the distribution of roving bobbins on the spinning machine frame. Tekst.prom. 21 no.6:41-42 Je '61.
(MIRA 15:2)

1. Nachal'nik byuro teknicheskoy informatsii Furmanovskoy pryadil'no-tkatskoy fabriki No.2
(Spinning machines)

KRIVONOS, S.V., magistral'nyy inzh.; GUSEV, V.D., magistral'nyy inzh.

Protective circuits for decreasing interference. Vest. sviazi 21 no.8:12-13 Ag '61. (MIRA 14:9)

1. Instruktory Upravleniya mezhdugorodnoy telegrafno-telefonnoy seti Ministerstva svyazi RSFSR.
(Telephone lines) (Shielding (Electricity))

USSR/Medicine - Veterinary - New Drugs Jul 53

"The Application of Tiargen (I) in the Treatment of Babesiasis of Cattle," A.I. Shmylevich, Cand of Vet Sci

Veterinariya, Vol 30, No 7, pp 26-27

Compares favorably the effects of I (sodium penthiosulfate-argentate) with those of albargin, hemosporidin and other drugs, in the treatment of Babesia bovis. According to protozoologist V.F. Gusev, I produces a rapid elimination of parasites from the peripheral blood, halts the progress of the disease, eliminates complications in the gastro-intestinal tract, and results in the quicker recovery of diseased animals. I, administered intravenously in doses of 0.001g to one kg of weight in a 1-2% concn, cured 99.53% of the animals treated. I was recently synthesized by G.A. Gorkusha and A.I. Shmulevich at the Chem-Ther Lab of the State Sci-Control Inst of Vet Prepns, Min of Agric and Procurement USSR.

273T61

USSR

Contracting and prophylactic effects of SK-9 on mites. V. F. Gusev. *Sbornik Nauch. Trudov, Leningrad. Inst. Usovershenstvovaniya Vet. Vrachei* 1953, No. 8, 5-8; *Referat. Zhur., Khim.* 1954, No. 34734.—Treatment of domestic animals with 3-5% aq. emulsion of SK-9 (cf. Kazimov, *C.A.* 46, 11658i) prepn. kills all stages of *Ixodes ricinus* and *Dermacentor picius* except in the case of engorged females. The prepn. possesses no prophylactic properties. H. W.

G

USSR / Zooparasitology. Mite and Insect Vectors of Disease Agents. Acarids.

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 19719

Author : Gusev, V. F.
Inst : Leningrad Scientific-Research Veterinary Institute
Title : Study of the Regional Epizootology of Haemosporidiasis in Farm Animals of the Belorussian SSR

Orig Pub : Sb. tr. Leningr n.-i. vet. in-t, 1957, vyp 7, 96-106

Abstract : The basic carriers of haemosporidiasis in farm animals of BSSR are the ticks Ixodes ricinus and Dermacentor pictus. The first of these is widespread in the Republic and transmits babesiasis and francaiellosis in

Card 1/2

Card 2/2

GUSEV, V.F., dots.; PIROG, P.P., prof.; DRYAGIN, S.V., starshiy nauchnyy sotrudnik.

Sixtieth anniversary of the first veterinary research institution in Russia. Veterinariia 35 no.8:11-13 Ag '58. (MIRA 11:9)

1. Direktor Leningradskogo nauchno-issledovatel'skogo veterinarnogo instituta (for Gusev). 2. Zamestitel' direktora po nauchnoy chasti Leningradskogo nauchno-issledovatel'skogo veterinarnogo instituta (for Pirog). 3. Uchenyy sekretar' Leningradskogo nauchno-issledovatel'skogo veterinarnogo instituta (for Dryagin).
(Leningrad--Veterinary colleges)

SHARABRIN, I.G., prof.; GUSEV, V.; KOROSTELEV, P.M.; LAPSHIN, I.I.

Throughout the Soviet Union. Veterinariia 35 no.11:92-94 N '58. (MIRA 11:11)

(Veterinary medicine)

GUSEV, V.F., kand.veterinarnykh nauk

Leningrad Veterinary Research Institute. Trudy VIEV 23:330-337 '59.
(MIRA 13:10)

(Leningrad--Veterinary research)

GUSEV, V. F., STUPNIKOV, A. A., BASHMURING, A. F., MOTRICH, T. A. and VIL'NER, E. A.
(Leningrad Scientific Research Veterinary Institute)

"Concerning the problem of toxicity of dithiophos"

Veterinariya, vol. 39, no. 7, July 1962 pp. 84

[redacted].; [redacted], A.A.; [redacted], A.P.; [redacted], I.A.

[redacted]. Veterinariia 39 no.7:84-86 Jl '62. (MIRA 15:1)

1. Leningradskiy [redacted]-issledovatel'skiy veterinarnyy institut.

GUSEV, V.F., STUPNIKOV, A.A.

Toxicology of the repellent hexamide (P-401). Veterinariia 41 no.6:112-113 Je '64. (MIRA 18:6)

1. Leningradskiy nauchno-issledovatel'skiy veterinarnyy institut.

GUSEV, V.F.; STEPANKOV, A.A.; BAGIMURIN, A.F.; MOTRICH, T.A.; VIL'NER, E.A.

Response to our opponents. Veterinariia 41 no.12:70-72 D '64.
(MIRA 18:9)

1. Leningradskiy nauchno-issledovatel'skiy veterinarnyy institut.

L 37698-66

ACC NR: AP6022211 SOURCE CODE: UR/0115/66/000/005/0085/0085

19
2

AUTHOR: Gusev, V. F.

ORG: none

TITLE: Parabolic micromanometer

SOURCE: Izmeritel'naya tekhnika, no. 5, 1966, 85

TOPIC TAGS: pressure gage, micropressure gage, parabolic micropressure gage

ABSTRACT: Vertical alcohol manometers and inclined micromanometers are normally used for measuring low air and gas pressures. When used for wider pressure ranges these devices are limited by their size and the need for additional computations. Usually it is velocity instead of air pressure which is being determined, thus resulting in possible computation errors. N. S. Mitrofanov has invented an instrument which is free from these limitations (see Fig. 1). This device has greater accuracy

UDC: 531.787

Card 1/2

L 37698-66

ACC NR: AP6022211

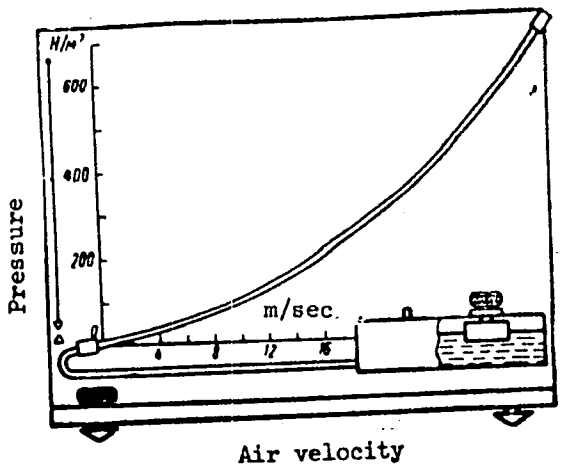


Fig. 1. Parabolic micromanometer

than the inclined micromanometer, particularly in the measurement of velocities. [SA]
Orig. art. has: 1 figure.

SUB CODE: 14, 20/ SUBM DATE: none/ ORIG REF: 001/ ATD PRESS: 5041

Card 2/2

TUPUBINER, A.L.; GURSKIY, G.L.; SAVIN, A.I.; TEREKHOV, A.I.; GUSEV, V.F.; LEBEDEVA, V.F.

Influence of thermal conditions on the self-carburation and radiation of the natural gas flame. Stal' 24 no.11:985-989 N '64. (MIRA 18:1)

GUSEV, Vasiliy Fedorovich; SHUL'MEYSTER, B.I., inzhener, redaktor; MATVEYEVA, Ye.N., tekhnicheskiy redaktor

[Assembling and repair of turbocompressors] Montazh i naladka turbokompressorov. Izd. 3-e. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 177 p. (MLRA 10:1)
(Compressors)

KUZNETSOV, G.S., prof., otv. red.; BOCHAROV, I.A., prof., red.; VOKKEN, G.G., prof., red.; TSION, R.A., prof., red.; DMITROCHENKO, A.P., prof., red.; SINEV, A.V., prof., red.; FEDOTOV, B.N., prof., red.; CHERNYAK, V.Z., prof., red. Prinimali uchastiye: NIKOL'SKIY, S.N., prof., red.; KHEYSIN, Ye.M., prof., red.; GUSEV, V.F., dots., red.; KOLABSKIY, N.A., dots., red.

[Papers presented at the Conference on Protozoological Problems Dedicated to the 90th Anniversary of the Birth of Professor V.L. IAkimov] Sbornik rabot Nauchnoi konferentsii po protozoologicheskim problemam, posviashchennaia 90-letiiu so dnia rozhdeniia professora V.L.IAkimova. Leningrad, 1961. 292 p. (MIRA 15:6)

1. Nauchnaya konferentsiya po protozoologicheskim problemam, posvyashchennaya 90-letiyu so dnya rozhdeniya professora V.L. Yakimova. 2. Stavropol'skiy sel'skokhozyaystvennyy institut (for Nikol'skiy). 3. Institut tsitologii Akademii nauk SSSR (for Kheysin). 4. Leningradskiy veterinarnyy institu (for Kolabskiy).
(Protozoology--Congresses)

GUSEV,V.F., inzhener; MOLOTKOV,G.A., inzhener; TURUBINER,A.L., inzhener

The use of forsterite brick in checkerwork. Stal' 15 no.9:838-841 S '55. (MIRA 8:12)

1. Zavod "Zaporozhstal'"

(Refractory materials)

KIORESKO, B.V.; GUSEV, V.F.; TURUBINER, A.L.; MOLOTKOV, G.A.; SAVIN, A.I.

Automatization of open-hearth furnaces at the Zaporozhstal' Plant.
Stal' 16 no.8:689-697 Ag '56. (MLRA 9:10)

1.Zavod "Zaporozhstal'."
(Zaporozh'ye--Open-hearth furnaces) (Automatic control)

GUSEV, Vyacheslav Fedorovich; TURUBINER, Anatoliy L'vovich; SAMOKHVALOV, Ya., vedushchiy redaktor; MATUSEVICH, S., tekhnicheskiy redaktor

[Equipment and apparatus for automatic control of open-hearth furnaces] Pribory i apparatura avtomaticheskogo upravleniia martenovskimi pechami. Kiev, Gos.izd-vo tekhn.lit-ry USSR, 1957. 111 p. (MLRA 10:8)

(Automatic control) (Open-hearth furnaces)

Gusev, Vyacheslav F.

Call Nr: TN 740.G8

AUTHORS: Gusev, Vyacheslav F., Turubiner, Anatoliy L.

TITLE: Instruments and Equipment Used in Automatic Control of Open-hearth Furnaces (Pribory i apparatura avtomaticheskogo upravleniya martenovskimi pechami)

PUB. DATA: Gosudarstvennoye izdatel'stvo tekhnicheskoy literatury USSR, Kiyev, 1957, 114 pp., 1950 copies

ORIG. AGENCY: None given

EDITORS: Editor-in-Chief: Samokhvalov, Ya.;Tech. Ed.:Matusevich,S.; Correctors: Pokikarpova, N., Riys, V.

PURPOSE: This booklet is designed for foremen, melters and workers operating open-hearth furnaces. It can also be used for self-education and as a textbook for vocational courses.

COVERAGE: The book discusses problems of automatic control of open-hearth furnaces with gaseous fuel firing. Automatic control systems are examined and fundamental information on heat control and controllers used in open-hearth furnaces of the "Zaporozhstal'" foundry are presented.

Card 1/3

Call Nr: TN 740.68

Instruments and Equipment Used in Automatic Control of Open-hearth Furnaces

Improvements made in the automatic control system are described and the results obtained are demonstrated. No personalities are mentioned. There are 10 bibliographic references, all USSR.

TABLE OF CONTENTS

Card 2/3

Call Nr. TN 740.G8

Instruments and Equipment Used in Automatic Control of Open Hearth-Furnaces

AVAILABLE: Library of Congress

Card 3/3

YUPKO, L.D.; TRUBETSKOV, K.M.; GURSKIY, G.L.; TEREKHOV, I.A.; GUSEV, V.F.; VOYTOV, A.O.

Accelerating open-hearth furnace smelting with an increased use of oxygen. Stal' 23 no.1:16-19 Ja '63. (MIRA 16:2)

1. Zavod "Zaporozhstal'", TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii i TSentroenergochermet.
(Open-hearth process) (Oxygen--Industrial applications)

BESPAL'KO, I.G., red.; GUSEV, V.F.; YEVDOKIMOV, P.D. prof.,red.; IVANOV, S.M., red.; NIKULIN, V.N., red.; SICHIOKO, G.A., red.; SIPTSOV, A.S., red.

[Transactions of the scientific conference on production] Trudy nauchno-proizvodstvennoi konferentsii. Pskov, 1962. 341 p. (MIRA 18:2)

1. Leningrad. Nauchno-issledovatel'skiy veterinarnyy institut. 2. Nachal'nik veterinarnogo otdela Pskovskogo oblastnogo upravleniya proizvodstva i zagotovok sel'skokhozyaystvennykh produktov i Leningradskiy Nauchno-issledovatel'skiy veterinarnyy institut (for Nikulin). 3. Leningradskiy veterinarnyy institut (for Yevdokimov).

GUSEV, V.G. [Huseu, V.H.], kand.biol.nauk; PANKEVICH, T.P.

Formation of niduses and phenology of the Colorado beetle in the White Russian S.S.R. Vestsi AN BSSR. Ser.biial.nav. no.3:35-43 '58. (MIRA 11:11)

(White Russia--Potato beetle)

GUSEV, V. G.

"Shortcomings of the Rodina Receiver," Radio, No. 4, 1948;

GUSEV, V. G.

"Improving Amateur Operation by Keeping the Air Clear" Radio, No. 2, 1949.

GUSEV, V. G.

"The Moskvich-V' Reveiver," Radio, No. 6, 1949.

GUSEV, V. G.

"From the Transmitter to the Receiving Antenna," Radio, No. 11, 1949.

GUSEV, V. G.

Cand Tech Sci - (diss) "Performance of hydro-aggregates in a variable pressure head condition and with variable rate of rotation on the line of transfer of power using direct current." Novosibirsk, 1961. 17 pp; (Academy of Sciences USSR, Siberian Division, Joint Academic Council for Physics-Mathematics, and Technical Sciences); 220 copies; price not given; (KL, 7-61 sup, 234)

L 45657-66 EWT(d)

ACC NR: AP6021392 SOURCE CODE: UR/0103/66/000/006/0082/0089

AUTHOR: Gusev, V. G. (Leningrad)

38
B

ORG: none

TITLE: Estimating the relative mean-square error in the realization of linear operators on a digital computer

SOURCE: Avtomatika i telemekhanika, no. 6, 1966, 82-89

TOPIC TAGS: linear operator, digital computer, real time computer, MEAN SQUARE ERROR

ABSTRACT: In this article a method is proposed for estimating the error due to the time-quantizing step when working out linear operators on an electronic digital computer. This method of error estimation in the time area is based on the value of the deviations of the amplitude and phase frequency characteristics of the continuous and corresponding discrete systems. A simplified formula is derived whereby the relative mean-square error introduced by the time-quantizing process can be estimated with a fair degree of accuracy. Orig. art. has 21 formulas.

SUB CODE: 09/ SUBM DATE: 28Oct65/ ORIG REF: 003/ OTH REF: 001

Card 1/1 egh UDC: 62-504.2:681.142

L 7985-66 EWT(l)/EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/T/ETC(m) WW/DJ

ACC NR: AP5026519 SOURCE CODE: UR/0286/65/000/019/0050/0050

AUTHORS: Gusev, V. I.; Mironov, S. G.; Piskalov, L. M.; Karpov, Ye. N.

ORG: none

TITLE: A device for lubricating vacuum pumps. Class 27, No. 175165 [announced by Enterprise of the State Committee for Defense Technology, SSSR (Predpriyatiye gosudarstvennogo komiteta po oboronnoy tekhnike SSSR)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 50

TOPIC TAGS: pump, vacuum pump, mechanical engineering

ABSTRACT: This Author Certificate presents a device for lubricating vacuum pumps. The device contains a cutoff valve operated by a centrifugal governor kinematically connected to the shaft of the pump (see Fig. 1). To simplify the construction, the governor is mounted on the shaft bracket, and the movable clutch of the governor is provided with a bearing which opens or closes the valve when the pump is being stopped or started.

Card 1/2

UDC: 621.521.-72

L 7985-66

ACC NR: AP5026519

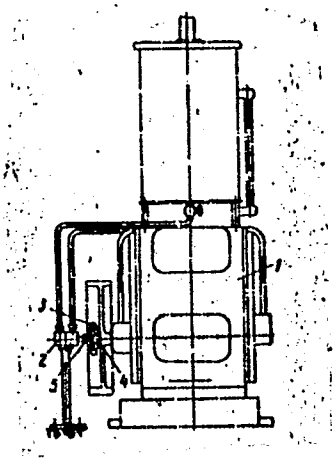


Fig. 1. 1- pump; 2- valve; 3- centrifugal governor; 4- pump shaft; 5- bearing

Orig. art. has: 1 figure.
SUB CODE: IE/ SUB DATE: 21Jul64
Card 2/2

L 10082-66 EWT(l)/FSS-2/T IJP(c) JWS

ACC NR: AT6001385 SOURCE CODE: UR/3180/64/009/000/0027/0028

AUTHOR: Provorn[illegible]v, S. M. (Professor); Grebennikov, O. F. (Candidate of technical sciences; Docent); Gusev, V. P.

ORG: none

59
B+1

TITLE: Scanning camera capable of 500 million frames per second

SOURCE: Akademiya nauk SSSR. Komissiya po nauchnoy fotografii i kinomatografii. Uspekhi nauchnoy fotografii, v. 9, 1964, 27-28

TOPIC TAGS: high speed camera, motion picture camera, plasma research/RKS-1 motion picture camera, RKS-2 motion picture camera, 16S-2 motion picture camera

ABSTRACT: A group of designers associated with the Leningrad Institute of Motion Picture Engineers has perfected their RKS-1 camera. Originally developed in 1958 with a capacity of 100 million frames per second, the camera's exposure frequency has now been increased to 500 million frames per second for use in the investigation of certain plasma, light amplification, chemical, and nuclear processes. The general arrangement of the new camera, the RKS-2, is shown in a diagram. The camera is provided with three exchange lenses with focal lengths of 35, 50 and 85 mm. The camera is suitable for both macro- as well as microphotographs. The scanning is effected by either of two point rasters (0.4 and 0.7 mm spacing, giving a capacity of 90 and 250 frames, respectively). The two mirrors rotate at 30,000 rpm. Twenty-four exposure frequencies can be selected with 10 sup 7 frames per second. The mirror rotating system develops and transmits a synchronizing signal to the object at a pre-set speed. The decoding of the images can be accomplished in the camera. The 16S-2 motion picture camera can be used for transfer of the images to 16 mm film. Orig. art. has 1 figure.

Card 1/1 SUB CODE: 14, 20/ SUBM DATE: none/ ORIG REF: 002

L 08573-67 EWP(m)/EWT(1)/EWT(m) WW/JW/JWD/WE

ACC NR: AP6033492 SOURCE CODE: UR/0413/66/000/018/0115/0115

INVENTOR: Grishin, S. D.; Gusev, V. I.; Denisov, Yu. N.; Mironov, S. G.; Serbinov, A. I.; Troshin, Ya. K.

52
8

ORG: none

TITLE: Shock tube for determining the ignition induction period of combustible mixtures. Class 42, No. 186166

SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 115

TOPIC TAGS: shock tube, fuel ignition, fuel ignition induction period, air fuel combustion

ABSTRACT: The proposed shock tube for determining the ignition induction period of combustible mixtures contains a test section and a section separated by a membrane for initiating the detonation. In order to decrease the size of the shock tube, the section for initiating the shock is made in the form of a helix (see Fig. 1). Orig. art. has: 1 figure. [WA No. 68]

Card 1/2 UDC: 534.222.2.002.51

L 08578-67
ACC NR: AP6033492

0

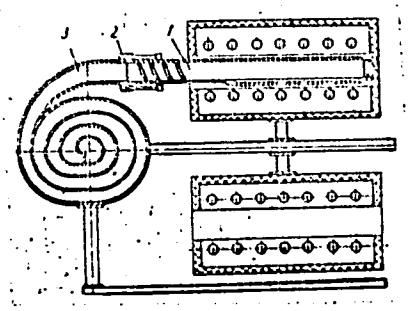


Fig. 1. Shock tube

1 - Test section; 2 - membrane; 3 - section for initiating detonation.

SUB CODE: 21/ SUBM DATE: 08Jun65

Card 2/2

L 43909-66 EWT(m)/EWP(j)/T RM
ACC NR: AP6015669 (A) SOURCE CODE: UR/0413/66/000/009/0075/0075

33
B

INVENTOR: Kuznetsov, Ye. V.; Gusev, V. I.; Semenova, L. S.; Shurygina, L. A.

ORG: none

TITLE: Method of obtaining organophosphorus polymers. Class 39, No. 181290

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 75

TOPIC TAGS: polymerization, catalyst, titanium tetrachloride, trietylaluminum, organophosphorus polymer

ABSTRACT: An Author Certificate has been issued for a method of obtaining organophosphorus polymers by polymerization of unsaturated phosphates in a medium of an inert liquid upon heating in the presence of a catalyst. To expand the variety of catalysts, the system of titanium tetrachloride—trietylaluminum is used as the catalyst. [Translation] [NT]

SUB CODE: 11/ SUBM DATE: 22Feb62/
07/

Card 1/1 UDC: 678.745.73

ACC NR: AP6029052 (A) SOURCE CODE: UR/0413/66/000/014/0080/0081

INVENTORS: Kuznetsov, Yo. V.; Gusev, V. I.; Zhidkova, T. N.; Andreyeva, I. N.; Semenova, L. S.

ORG: none

TITLE: A method for obtaining copolymers of propylene. Class 39, No. 183938

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 80-81

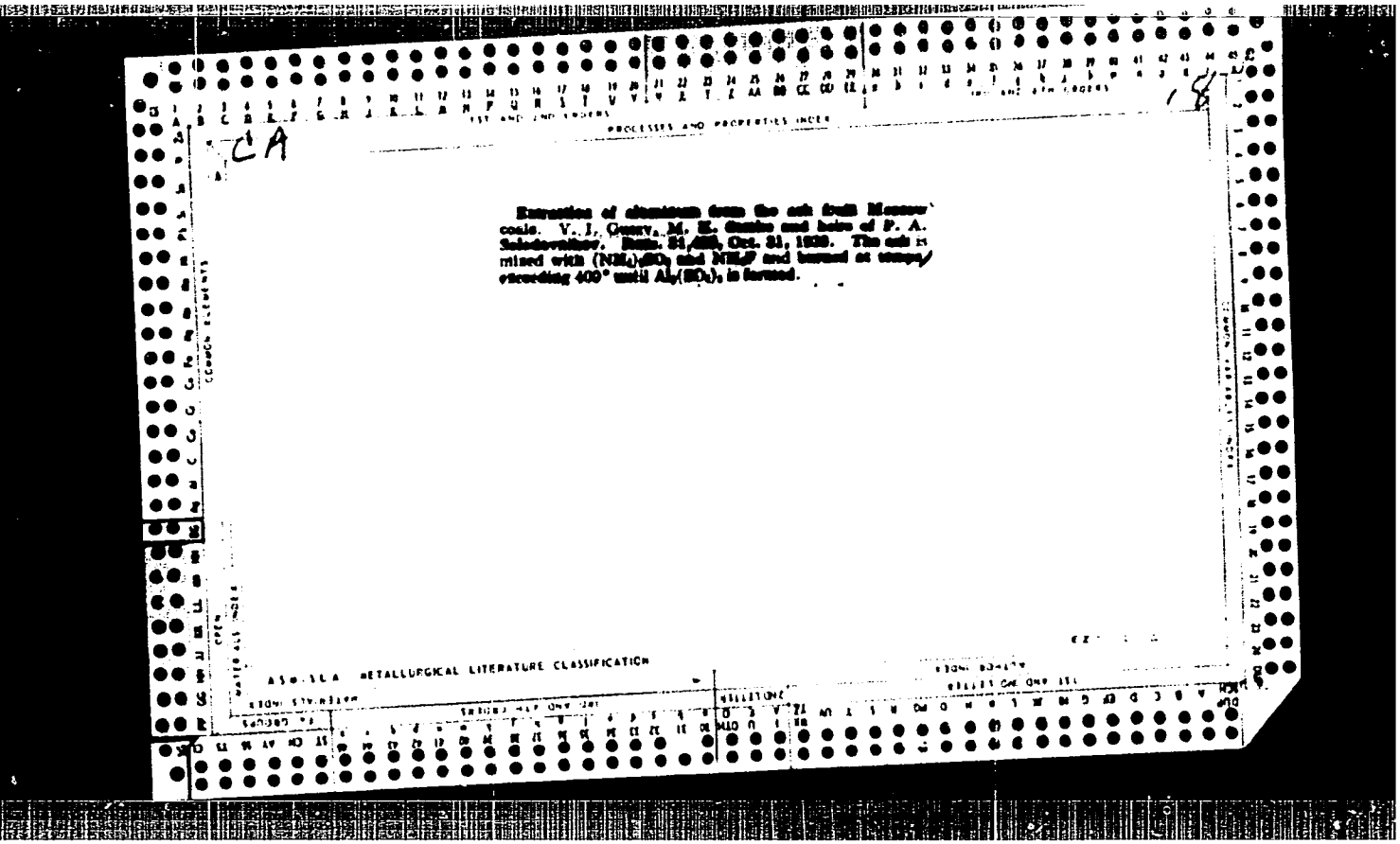
TOPIC TAGS: polymer, copolymer, propylene, polymerization, ester, phosphoric acid, catalyst, titanium compound, aluminum compound

ABSTRACT: This Author Certificate presents a method for obtaining copolymers of propylene with unsaturated compounds in the medium of an inert carbonaceous solvent at the temperature from 20 to 60C. The process is carried out in the presence of a catalyst consisting of titanium tetrachloride and aluminum alkyls. To impart the property of fire resistance to the copolymers, unsaturated mixed esters of phosphoric acid are used as the unsaturated compounds.

SUB CODE: 11/07/ SUBM DATE: 06Sep62

UDC: 678.742.3-134.573

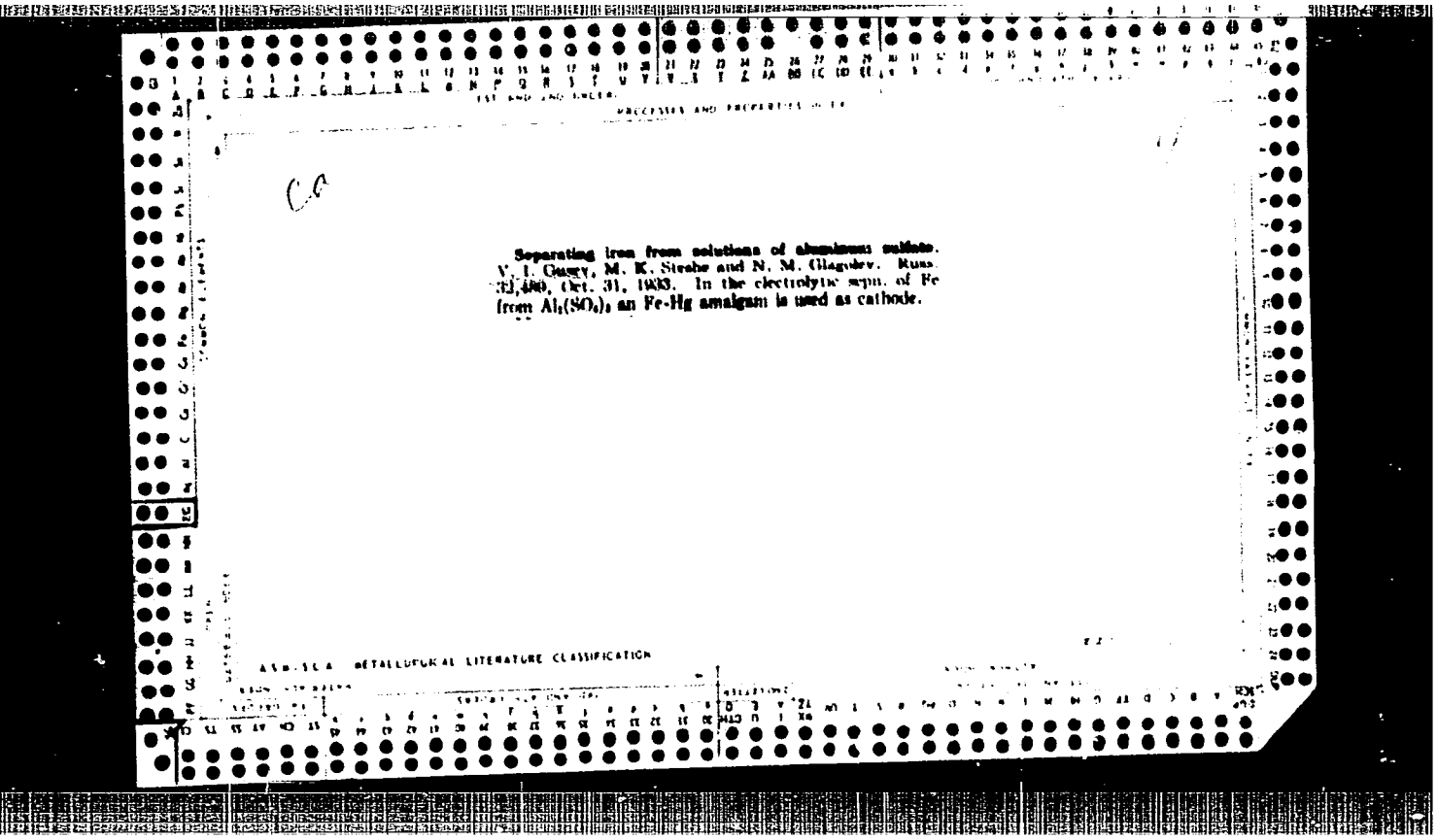
Card 1/1



CA

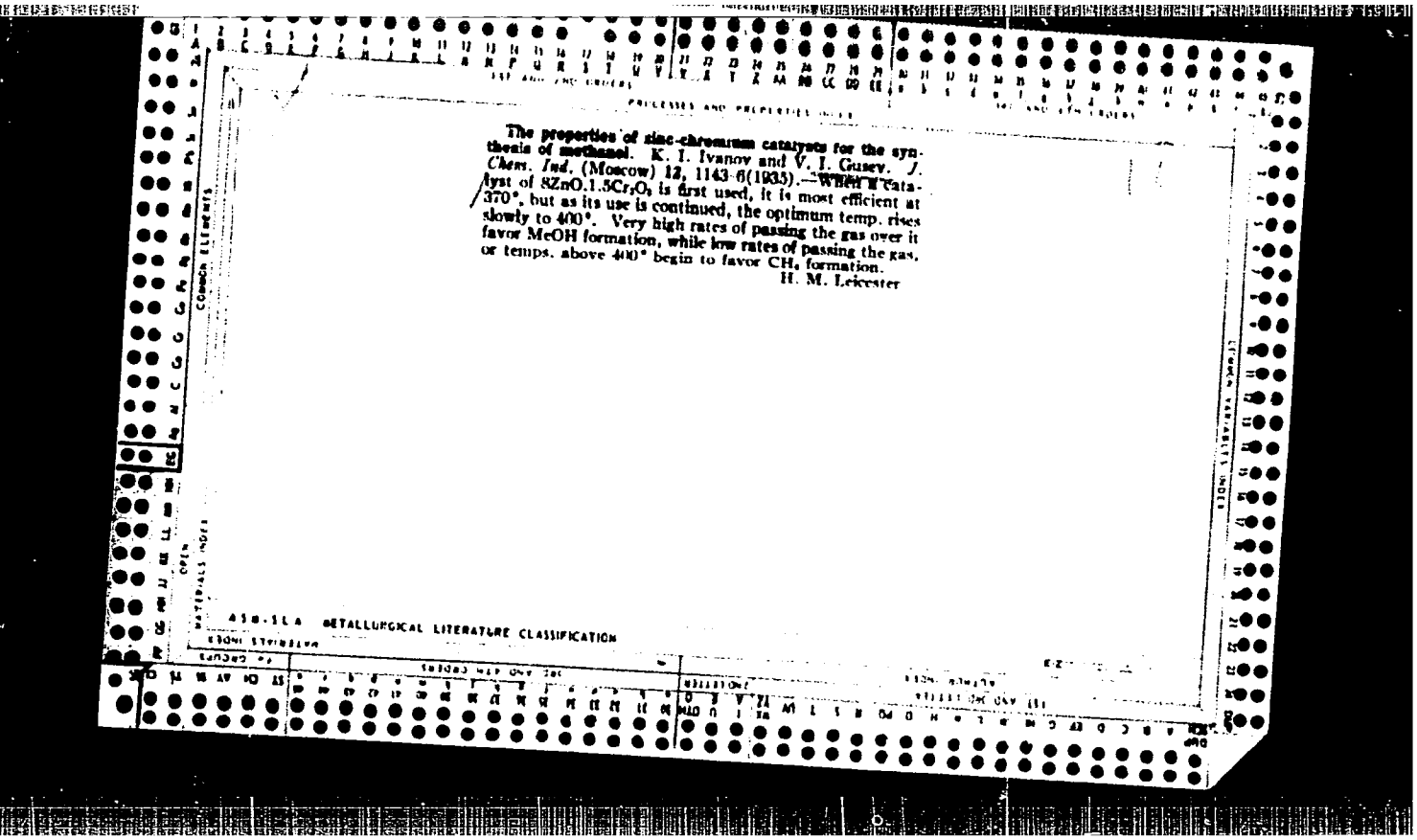
Extraction of aluminum from the ash from Moscow coals. V. I. Gusev, M. E. Shalin and Iakov al P. A. Soloduvakhov. Russ. 81,468, Oct. 31, 1950. The ash is mixed with $(NH_4)_2SO_4$ and NH_4F and burned at temps. exceeding 400° until $Al_2(SO_4)_3$ is formed.

ASM-TLA METALLURGICAL LITERATURE CLASSIFICATION



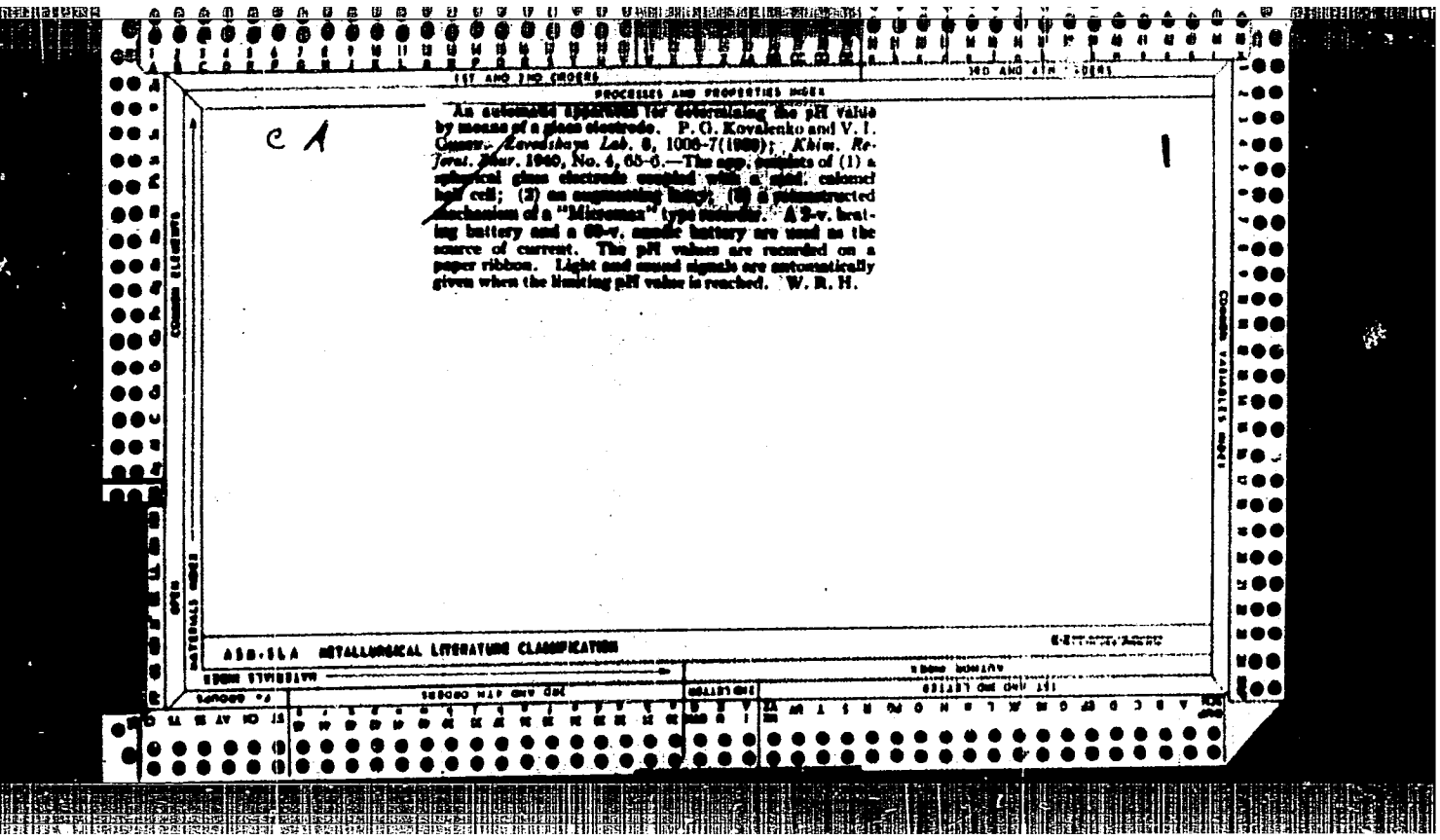
Separating iron from solutions of aluminum sulfate. V. I. Ginzy, M. K. Strahe and N. M. Glagolev. Russ. 32,480, Oct. 31, 1933. In the electrolytic sepn. of Fe from $Al_2(SO_4)_3$ an Fe-Hg amalgam is used as cathode.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



The properties of zinc-chromium catalysts for the synthesis of methanol. K. I. Ivanov and V. I. Gusev. *J. Chem. Ind.* (Moscow) **12**, 1143-6(1933).—When a catalyst of $8ZnO.1.5Cr_2O_3$ is first used, it is most efficient at 370°, but as its use is continued, the optimum temp. rises slowly to 400°. Very high rates of passing the gas over it favor MeOH formation, while low rates of passing the gas, or temps. above 400° begin to favor CH_4 formation.

H. M. Leicester

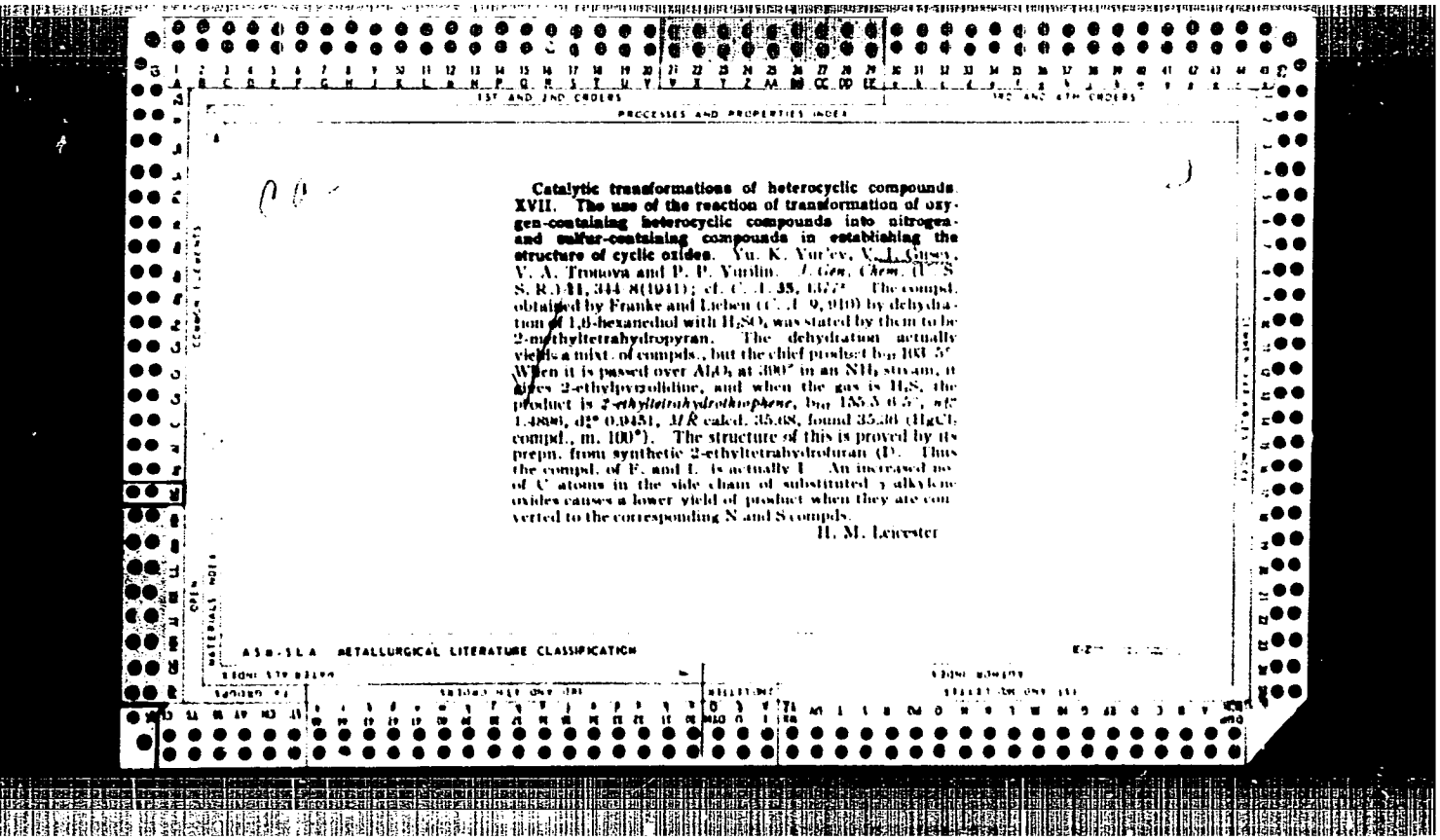


C A

An automatic apparatus for determining the pH value by means of a glass electrode. P. G. Kovalenko and V. I. Ganer. *Zavodskaya Lab.* 8, 1006-7(1939); *Khim. Referat. Zhur.* 1940, No. 4, 65-6.—The app. consists of (1) a spherical glass electrode coupled with a sat. calomel half cell; (2) an augmenting relay; (3) a reconstructed mechanism of a "Mirotmer" type recorder. A 2-v. heating battery and a 60-v. anodic battery are used as the source of current. The pH values are recorded on a paper ribbon. Light and sound signals are automatically given when the limiting pH value is reached. W. R. H.

1

A58-61A METALLURGICAL LITERATURE CLASSIFICATION



PROCESSES AND PROPERTIES INDEX

Catalytic transformations of heterocyclic compounds. XVII. The use of the reaction of transformation of oxygen-containing heterocyclic compounds into nitrogen- and sulfur-containing compounds in establishing the structure of cyclic oxides. Yu. K. Yur'ev, V. I. Gusev, V. A. Trunova and P. P. Yurkin. *J. Gen. Chem. U.S.S.R.* 11, 344-8(1941); cf. *C.A.* 35, 6572. The compd. obtained by Franke and Lieben (*C.A.* 9, 910) by dehydration of 1,5-hexanediol with H_2SO_4, was stated by them to be 2-methyltetrahydropyran. The dehydration actually yields a mixt. of compds., but the chief product b$_{40}$ 103.5°. When it is passed over Al_2O_3 at 300° in an NH_3 stream, it gives 2-ethylpyrrolidine, and when the gas is H_2S, the product is *2-ethyltetrahydrothiophene*, b$_{40}$ 155.5-6.5°, n_D^{20} 1.4880, d_4^{20} 0.9451, *MR* calcd. 35.08, found 35.30 ($HgCl_2$ compd., m. 100°). The structure of this is proved by its prepn. from synthetic 2-ethyltetrahydrofuran (I). Thus the compd. of F. and L. is actually I. An increased no. of C atoms in the side chain of substituted γ alkylene oxides causes a lower yield of product when they are converted to the corresponding N and S compds.

H. M. Leicester

A5a-5La METALLURGICAL LITERATURE CLASSIFICATION

GUSEV, V. I.

USSR/ Chemistry - Chemical technology

Card 1/1 : Pub. 22 - 33/49

Authors : Gusev, V. I., and Chistozvonov, D. B.

Title : Formation of water during the synthesis of methancl from carbon monoxide and H_2O

Periodical : Dok. AN SSSR 98/4, 629-631, Oct. 1, 1954

Abstract : The phenomenon of H_2O formation, which takes place during the synthesis of methanol from CO and H_2O, is explained. The mechanism of water formation was determined by estimating the methane contents in the gas. The reaction of water formation during the initial stages of methanol synthesis takes place at a much higher rate than the rate of reaction leading to the formation of methyl alcohol. The effect of various catalyst on the H_2O formation is discussed. Table.

Institution : ...

Presented by : Academician S. I. Vol'fkovich, April 16, 1954

BOCHAROV, N.F., kand.tekhn.nauk; KRADINOV, Ye.B.; GUSEV, V.I.; ABRAMOVA, E.Ye.

Testing extra-wide-lug-type tires on snow. Avt.prom. 27 no.11: 11-13 N '61. (MIRA 14:10)

1. Moskovskoye vysshaye tekhnicheskoye uchilishche i Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.
(Motor vehicles—Tires)

BOCHAROV, N.F.; KRADINOV, Ye.B.; GUSEV, V.I.; ZAKHAROV, S.P.; ABRAMOVA, E.Ye.

Investigating the performance of tubeless tires on sand ground.
Kauch.i rez. 21 no.3:36-40 Mr '62. (MIRA 15:4)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni N.E. Baumana i Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.
(Tires, Rubber--Testing)

BOCHAROV, N.F., kand.tekhn.nauk; KRADINOV, Ye.B.; GUSEV, V.I.

Device for measuring deformations of a pneumatic tire roller.
Avt.prom. 29 no.1:24-25 Ja '63. (MIRA 16:1)

1. Moskovskoye vysshoye tekhnicheskoye uchilishche im. Baumana.
(Tires, Rubber--Testing)

BOCHAROV, N.F., kand. tekhn. nauk; GUSEV, V.I., inzh.; KRADINOV, Ye.B., kand. tekhn. nauk; SEMENOV, V.M., kand. tekhn. nauk; PETRUSHOV, V.A., kand. tekhn. nauk

Motor vehicles on flexible rollers. Izv. vys. ucheb. zav.; mashinostr. no.10:89-103 '63. (MIRA 17:3)

1. Moskovskoye vysshaya tekhnicheskoye uchilishche imeni Baumana i TSentral'nyy nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut.

BOCHAROV, N.F., kand. tekhn. nauk, dotsent; GUSEV, V.I., inzh.; KRADINOV, Ye.B., kand. tekhn. nauk; MAKAROV, S.G., inzh.

Tensometering device for measuring the deformations of a balloon tire. Izv. vys. ucheb. zav.; mashinostr. no.2:119-123 '64. (MIRA 17:5)

1. Moskovskoye vysshaye tekhnicheskoye uchilishche imeni Baumana.

[illegible], [illegible]

Balloon tires and the design of their rims. Izv. vyz. mekh. mash.; mashinostr. no.7:125-129 '64. (MIRA 17:12)

1. Moskovskoye vysshiye tekhnicheskoye uchilishche imeni N.E. Baumana.

ACCESSION NR: AP5001166 S/0113/64/000/010/0022/0025

AUTHORS: Bocharov, N. F. (Candidate of technical sciences); Gusov, V. I.; Makarov, S. G.; Semenov, V. M. (Candidate of technical sciences); Kradinov, Ye. B. (Candidate of technical sciences)

TITLE: Peculiarities of pneumatic roller rolling along a hard road and deformable soils

SOURCE: Avtomobil'naya promyshlennost', no. 10, 1964, 22-25

TOPIC TAGS: transportation, dynamic tire radius, road surface material, rolling radius/ I 220 roller, I 245 roller, Ya 194 roller

ABSTRACT: The results of a series of investigations of the mechanics of a pneumatic roller in contact with surfaces of various descriptions are presented. The rollers used were of types I-220, I-245, and Ya-194. The first series of tests was for measuring the radial deformation of the rollers under several loadings and for parametric values of pneumatic pressure. Account is made of stiffness of the rubber material in comparison with that of certain production tires. A constant velocity of travel was allowed for tests of variation of rolling radius with load and internal pressure; the results were plotted and compared for the different roller types. The

Card 1/2

ACCESSION NR: AP5001166

work was related to theoretical equations developed by Ye. A. Chudakov (Kacheniye avtomobil'nogo kolesa. Izd. AN SSSR, M., 1948). Rolling resistance was related to radial deflection and rolling radius, and these resistance forces were found to be in close agreement with Chudakov's hypotheses. Testing apparatus described by N. F. Bocharov, V. I. Gusev, and Ye. B. Kradinov (Avtomobil'naya promyshlennost', 1963, No. 1) was used to measure dynamic radius under braking conditions, nearly free movement, and controlled movement. Sixteen circumferential points were measured with results plotted on an oscillogram. Rolling radius and dynamic radius were compared graphically for certain test parameters. The measurements are summarized, and the variations caused by the hardness of the road surface are noted. Orig. art. has: 5 equations and 5 figures.

ASSOCIATION: MVTU imeni Baumana, NAMI

SUBMITTED: 00 ENCL: 00

SUB CODE: GO, MT NR REF SOV: 003 OTHER: 000

Card 2/2

BOCHAROV, N.F., kand. tekhn. nauk; GUSEV, V.I.; [illegible], Ya.B., kand. tekhn. nauk; MAKAROV, S.G.; SEMENOV, V.M., kand. tekhn. nauk

Torque distribution in the transmission of motor vehicles having several driving wheels with wide-lug tires. Avt. prom. 31 no.2: 14-17 F '65. (MIRA 18:3)

1. Moskovskoye vysshaye tekhnicheskoye uchilishche imeni Baumana i TSentral'nyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut.

GUSEV, V. I.

Classification manual of injuries to forest and ornamental trees and bushes of European U.S.S.R. Izd. 2. ispr. i dop. Leningrad, Goslestekhizdat, 1940. 587 p.

Yudin SB601.G8 1940

GUSEV, V. I.

25638 GUSEV, V. I. Znamenatel'naya data. /K 50-letiyu nauch. deyatel'nosti I. V. Vasil'eva. Entomolog/ Trudy Vsesoyuz. in-ta zashchitb rasteniy, vbp. 2, 1949, s. 3-7.

SO: Letopis' Zhurnal Nykh Statey, Vol. 34, Moskva, 1949.

GUSEV, V. I.

Opredelitel' povrezhdeniy lesnykh i dekorationykh derev'yev i kystarnikov Yevropeyskoy chasti SSSR (Manuel for identifying injured forest and decorative trees and shrubs in the European part of the USSR, by) V. I. Gusev (i) M. N. Rimskiy-Korsakov. Izd. 3.
Moskva, Goslesbumizdat, 1951.
580 p. illus., diagrs.

GUSEV, V. I.

5674. GUSEV, V. I. Vrediteli Pol'ya, Gorroda, Sada i Lesa. Posobiye Dlya Uchiteley Sred. Shkoly. 3-E is pr. 1 Dop. Izd. Kiev, «Rad. Shkola» 1954. 288 s. s Ill.; 71. Ill. 22 s. m. 8,000 Ekz. 7r v per.—Bibliogr: s 277.—Na urk. Yaz.—(55-156)632.6/7 / (016.3)

SO: Knizhnaya, Letopis, Vol. 1, 1955

GUSEV, V. I.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

Name	Title of Work	Nominated by
Gusev, V. I. Rimskiy-Korsakov, M. N.	"Handbook for Determining Types of Damage to Forest and Decorative Trees and Shrubs of the European USSR"	Kiev Forestry Institute

SO: W-30604, 7 July 1954

GUSEV, V.I.; ANTONYUK, S.I.

Migration method of scarabaeid larvae (Coleoptera, Scarabaeidae) in the soil. Ent.obozr.35 no.1:56-59 '56. (MIRA 9:10)

1.Kiyevskiy Lesotekhnicheskiy Institut, Kiyev.
(Scarabaeidae) (Larvae)

GUSEV, V.I.

In memory of Zinovii Stepanovich Golevianko. Ent.obez.35 no.1:230-236 '56. (Golevianko, Zinovii Stepanovich, 1876-1953) (MLRA 9:10)

COUNTRY : USSR

CATEGORY : General and Specialized Zoology. Insects. P
Harmful Insects and Acarids.

ABS. JOUR. : RZhBiol., No.23, 1958, No.105335

AUTHOR : Gusev, V. I., Davris, V. A.

INST. : -

TITLE : Spindle Tree Snout Moth Alispa angustella Hb. (Lepidoptera Pyralidae) - A Pest of Spindle Tree Seeds.

SRIG. PUB. : Zool. zh., 1957, 36, No. 10, 1580-1583

ABSTRACT : In Ukraine, the snout moth produces two generations. The flight of the first generation lasts up to 2 weeks from the end of May. In 7-16 days caterpillars emerge from the eggs deposited on the set fruits and gnaw into the fruit. Up to 4 caterpillars feed on the seeds in the boll. Pupation takes place in the litter starting with the last 10 days of July. The flight of the II generation lasts from the end of July to the 2nd half of August. The caterpillars of the II generation appear in August-September and inter. Pupation takes place in white cocoons in the soil at the depth of to 5 cm. Most severely injured are the fruits of

Card: 1/2

Chair of Entomology, Ukr. Acad Agric Sci

SHMIGOVSKIY, Konstantin Andreyevich; GUSEV, Valentin Ivanovich; PARSADINOVA, K.G., red.; FEDOTOVA, A.F., tekhn.red.

[Pests of field, garden, orchard, and forest; a manual for teachers in secondary schools] Vrediteli polia, ogoroda, sada i lesa; posobie dlia uchitelei srednei shkoly. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1958. 327 p. (MIRA 12:7)

(Agricultural pests)

GUSEV, V.I.(Kiyev)

Conference on forest protection in Prague (Czechoslovakia). Ent. oboz. 37 no. 2:491-498 '58. (MIRA 11:7)
(Prague--Forest protection--Congresses)

ANFINNIKOV, Mikhail Aleksandrovich, kand. sel'khoz.nauk; GUSEV, V.I., prof., red.; BLANINA, L.F., red.; KVITKA, S.P., tekhn. red.

[Leopard moth and its control] Drevesnitsa v"edlivaia i bor'ba s nei. Kiev, Izd-vo Ukrainskoi Akad.sel'khoz.nauk, 1961. 153 p. (MIRA 15:1)

(Plants—Diseases and pests)

GUSEV, Valentin Ivanovich, prof., lesnoy entomolog; RIMSKII-KORSAKOV, Mikhail Nikolayevich, prof., lesnoy entomolog [1873-1951]; YATSENTKOVSKIY, Aleksey Vladimirovich; SHIPEROVICH, Vladimir Yakovlevich, lesnoy entomolog; POLUBOYARINOV, Ivan Ivanovich, lesnoy entomolog; IL'INSKIY, A.I., dots., retsenzent; POLOZHENTSEV, P.A., prof., retsenzent; KHRAMTSOV, N.N., red.; ARNOL'DOVA, K.S., red. izd-va; BACHURINA, A.M., tekhn. red.

[Forest entomology] Lesnaia entomologiia. Izd.4., perer. pod obshchim rukovodstvom i red. V.I.Guseva. Moskva, Goslesbumizdat, 1961. 486 p. (MIRA 14:7)

1. Zaveduyushchiy kafedroy entomologii Ukrainskoy akademii sel'skokhozyaystvennykh nauk (for Gusev)

(Forest insects)

GUSEV, Valentin Ivanovich[Husiev, V.I.]; YERMOLENKO, Valeriy Mikhaylovich [Ermolenko, V.M.]; SVISHCHUK, Valentina Viktorovna[Svyshchuk, V.V., deceased]; SHMIGOVSKIY, Konstantin Andreyevich [Shmyhovs'kyi, K.A., deceased]; KLYUCHKO, Z.F., red.; SHEVCHENKO, L.I., tekhn. red.

[Atlas of insects of the Ukraine]Atlas komakh Ukrainy. Kyiv, Derzh.uchbovo-pedagog.vyd-vo "Radians'ka shkola," 1962. 222 p. (MIRA 16:2)

(Ukraine--Insects)

GUSAKOV, M.Ya.; GUSEV, V.K.

Delustring of capron fiber. Khim.volok. no.3:28 '62.
(MIRA 16:2)

1. Engel'sskiy zavod.

(Nylon)

GUSEV, V.K.

Experience with improvement and landscape gardening of urban areas.
Gor. khoz. Mosk. 36 no.9:32-35 S '62. (MIRA 15:10)
(Moscow—Air—Pollution) (Moscow—Landscape gardening)

SUBJECT: USSR/ Welding 135-3-12/17

AUTHOR: Gusev V.M., foreman.

TITLE: Self-Propelled Welding Machine Designed by Foreman N.I. Krylov' (Samokhodnyi svarochnyi agregat konstruktsii mastera N.I. Krylova).

PERIODICAL: "Svarochnoye Proizvodstvo", 1957, # 3, p 26 (USSR)

ABSTRACT: N.I. Krylov, a foreman of the Syzran' Petroleum Refinery has designed and built a welding machine on wheels for use in outdoors work on pipelines. He has utilized the frame of the welding aggregate "САК-2Гг-1", which he made 100 mm longer on the side of the gasoline engine, and 900 mm longer on the generator side. The frame together with the welding aggregate has been put on wheels with pneumatic tires. The driving mechanism consists of automobile parts. The radiator is removed to the rear. The fan is placed on the water pump shaft, which intensifies cooling. The entire aggregate is encased in a sheet metal hood with ventilation slots. Two oxygen containers are located on the left side of the unit; on the right side there is the acetylene generator. Two automobile headlights serve

Card 1/2

135-3-12/17

TITLE: Self-Propelled Welding Machine Designed by Foreman N.I. Krylov' (Samokhodnyi svarochnyi agregat konstruktsii mastera N.I. Krylova).

for lighting the road at night and provisions are made for illuminating the place of work at night by a special portable projector.

The maximum speed of the unit is 15 km/hr.
Operation is simple, and a former driver - instructed by Krylov - managed to weld during 6 hours work twice as much as it could be done in one 8-hour working day with a conventional unit and the common work organization.

ASSOCIATION: Syzran' Petroleum Refinery (Syzranskiy neftepererabatyvayushchiy zavod).

PRESENTED BY:

SUBMITTED:

AVAILABLE: At the Library of Congress.

Card 2/2

SOV/124-58-8-8721

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 53 (USSR)

AUTHOR: Gusev, V.M.

TITLE: On the Calculation of the Water Pipes of a Vertical Hot-water-circulation Heating System (K raschetu truboprovodov vertikal'-noy protochnoy vodyanoy sistemy otopleniya)

PERIODICAL: Nauchn. tr. Leningr. inzh.-stroit. in-ta, 1955, Nr 20, pp 88-109

ABSTRACT: For calculation of vertical pipe networks of hot-water-circulation heating systems it is recommended that systems already built in which pressure losses are known be used. Experimental data obtained from ready-built systems with attached measuring instruments, as analyzed graphically, disclose a relationship of the form

$$E = \Delta p / \rho u^2 = f(R)$$

Values for the hydraulic-resistance coefficient λ of the pipes are computed with the formulae of G.A. Murin (Izv. Vses. tep-lotekhn. in-ta, 1938, Nr 10) and those for the local resistance

Card 1/2

On the Calculation of the Water Pipes (cont.)

coefficient of the fittings from data obtained by P.N. Kamenev, author of OST (All-Union Standard) Nr 90036-39; both sets of values are tabulated. Formulae are given for calculating the pressure in the vertical-flow stand pipes as the water cools. To determine the weight-flow rate of the water in a stand pipe, the author evolves an incomplete cubic equation which he recommends solving either analytically or with the help of a nomogram included in the article. Numerical examples illustrate the use of the formulae and graphs recommended by the author, and a description is given of a special slide rule designed to simplify the operations involved in the calculating methods proposed by him.

V.I. Gotovtsev

L 29337-66 EWP(k)/EWT(d)/EWP(h)/EWP(l)/EWP(v)

ACC NR: AR5023228 SOURCE CODE: UR/0272/65/000/008/0025/0025

AUTHOR: Gusev, V. M.

43
B

TITLE: Contactless measurement of the thickness of sheets

SOURCE: Ref. sh. Metrologiya i izmeritel'naya tekhnika, Abs. 8.32.193

REF SOURCE: Sb. Oborud. dlya pererabotki polimerov. Kiyev, Tekhnika, 1964, 191-194

TOPIC TAGS: measuring instrument, automatic regulation, vibration measurement, synthetic material

ABSTRACT: An instrument for measuring the thickness of linoleum without backing during the process of rolling on a four-roller calender is described. The instrument was designed at the automation laboratory of the UkrNIIplastmass Institute. The operation of the instrument is based on the principle of change of the complete acoustic resistance in the air duct of built-up sections, determined by the distance of the sensing element from the surface of the material to be measured, fixed about some sort of backing. The principal electric circuit of the instrument is shown and described. Tests have shown that the instrument is suitable for contactless continuous regulation of the thickness of strips and sheets, for indicating the location of films in the automatic lines, and for contactless indication of machine part vibrations with remote transmission of the reading. 3 illustrations. S. Kolesnikov

SUB CODE: 14,13/ SUBM DATE: none

Card 1/1 CC

UDC: 389:531.717.5:621.034.4

GUSEV, V.M. (Leningrad)

Simplifying the choice of heating furnaces. Vod. i san. tekh. no.11:33-34 N '60. (MIRA 13:11)
(Furnaces, Heating)

FEDOROV, Nikolay Fedorovich,prof., doktor tekhn. nauk; GUSEV, Valerian Mikhaylovich, dotsent, kand. tekhn. nauk; POPRUGIN, I.V., inzh., retsenzent; MOROZOV, N.I., inzh., retsenzent; GEFDING, A.K., kand. tekhn. nauk, nauchnyy red.; STEPANOV, D.A., inzh., nauchnyy red.; ZHURAVSKIY, N.A., red.; VOLCHOK, K.M., tekhn. red.; PUL'KINA, Ye.A., tekhn. red.

[Sanitary engineering] Sanitarnaia tekhnika. Leningrad, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 371 p. (MIRA 14:6)

(Sanitary engineering)

GUSEV, V. M. DECEASED 1963/2

c: 1962

ZOOLOGY-
epidemology

[illegible]ILC

GUSEV, V.M.; BEDNYY, S.N.; GUSEVA, A.A.; LABUNETS, N.F.; BAKEYEV, N.N.

Ecological groups of birds of the Caucasus and their role in the life of ticks and fleas. Trudy Nauch.-issl. protivochum. inst. Kav. i Zakav. no.5:217-267 '61.
(MIRA 17:1)

RYLESHNIKOVA, M.M.; GUSEV, V.M.; FRIDMAN, M.L.; PUNGA, V.E.

Portable machine for shabot repair. Mashinostroitel' no.2:22 F '62. (MIRA 15:2)

(Milling machines)

GUSEV, V.M.; TIFLOVA, L.A.; GUSEVA, A.A.; BEDNYY, S.N.

Notes on fleas and ticks in Askaniya-Nova. Trudy Nauch.-issl. protivochum. inst. Kav. i Zakav. no.5:268-275 '61. (MIRA 17:1)

GUSEV, V.M.

AUTHOR GUSEV, V.M., CHKUASELI, D.V., GUSEVA, M.I. 89-9-4/32

TITLE The Separation of Ge and Mg Isotopes [illegible]
Magnetic Separator.
(Razdeleniye izotopov germaniya i magniya v malom elektromagnitnom separatore)

PERIODICAL Atomnaya Energiya, 1957, Vol 3, Nr 9, pp 215-221

ABSTRACT Of a small electromagnetic separator (920 x 1500 x 350 mm) (built according to Dempter's mass spectograph) particularly the new construction of the ion source and of the ion target are described. The ion source, in which the discharge is maintained in the vapor of the element to be investigated, works satisfactorily up to temperatures of 1500°C. The ion target is constructed in such as manner that it collects all isotopes of the element to be separated at one and the same time. The dependence of the ion flux, which was focussed on the target has been particularly well measued. In the case of Ge- separation the ion flux at the target attained 15-20 mA at Mg 35-40 mA. In the chambers of the target about 40 mg of the enriched germanium isotopes and ~ 25 mg of the magnesium isotopes were separared per hour.
The mass-spectrographical investigation was carried out on metallic germanium and on MgJ_2.

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G.USTC, v. III

PHASE I BOOK EXPLOITATION SOV/1297

Vsesoyuznaya nauchno-tekhnicheskaya konferentsiya po primeneniyu radioaktivnykh i stabil'nykh izotopov i izlucheniy v narodnom khozyaystve i nauke, Moscow, 1957

Polucheniye izotopov. Moskhunyye gamma-ustanovki. Radiometriya i dozimetriya; trudy konferentsii... (Isotope Production. High-energy Gamma-Radiation Facilities. Radiometry and Dosimetry; Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science) Moscow, Izd-vo AN SSSR, 1958. 293 p. 5,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR; Glavnoye upravleniye po ispol'zovaniyu atomnoy energii SSSR.

Editorial Board: Prolov, Yu.S. (Resp. Ed.), Zhavoronkov, N.M. (Deputy Resp. Ed.), Aglintsev, K.K., Alekseyev, B.A., Bochkarev, V.F., Lashchinskiy, N.I., Maikov, T.P., Shitsyn, Yu.I., and Popova, O.L. (Secretary); Tech. Ed.: Novichkov, M.D.

PURPOSE: This collection is published for scientists, technologists, persons engaged in medicine or medical research, and others connected with the production and/or use of radioactive and stable isotope and radiation.

COVERAGE: Thirty-eight reports are included in this collection under three main subject divisions: 1) production of isotopes 2) high-energy gamma-radiation facilities, and 3) radiometry and dosimetry.

TABLE OF CONTENTS:

PART I. PRODUCTION OF ISOTOPES

21(5)

AUTHOR: Gusev, V. M.

SOV/89-5-6-5/25

TITLE: Electromagnetic Separation of Platinum Isotopes (Elektromagnitnoye razdeleniye izotopov platiny)

PERIODICAL: Atomnaya energiya, 1958, Vol 5, Nr 6, pp 641 - 642 (USSR)

ABSTRACT: A new ion source is described, which permits work to be carried out at temperatures of up to 2800°C. The gas discharge chamber is a hollowed-out cone the entire front of which is bombarded with a well-collimated cylindrical electron beam and is thus heated. A homogeneous magnetic field causes the collimation of electrons. An electron gun serves as electron source. The crucible containing the metal to be separated is placed into the cone, where it serves as anode during the discharge. The frontal surface has a gap through which the electrons are able to emerge. The electron collector voltage and the electron acceleration voltage are furnished by one and the same high-voltage plant.
The ion source was used in a 180°-electromagnetic separator. During separation of the platinum isotopes the operational conditions of the source were the following:

Electromagnetic Separation of Platinum Isotopes SOV/89-5-6-6/25

Discharge current in platinum vapor	0,5 A
Discharge voltage	250 V
Consumption of material	0,3 to 0,4 g/h
Power necessary for heating the gas-discharge chamber	3 - 3,5 kW
Electron flux	130 - 140 mA
Temperature in the gas-discharge chamber	$\sim$2250°C
Acceleration voltage	25 kV
Working vacuum in the separation chamber	$1-2.10^{-5}$ mm Hg
Average current in the collectors of the separator	2,5 to 3,5 mA

The enrichment of the platinum isotopes was tested by means of the mass spectrometer [illegible]. The following degrees of enrichment were attained:

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Pt^{192}	16,2 %
Pt^{194}	72,3 %
Pt^{195}	62,2 %
Pt^{196}	41,7 %
Pt^{198}	67,1 %

With the exception of Pt^{166}-enrichment, the other values are better than those obtained at the Oak Ridge Laboratory. The ion source is used also for the separation of Ru-, Ir-, and Os-isotopes.

V. S. Zolotarev assisted in carrying out experiments. B. A. Alekseyev carried out the separation of the platinum isotopes. V. A. Suzdalev and K. G. Ordzhonikidze carried out mass-spectrometrical platinum analyses. There are 2 figures, 1 table, and 1 reference, which is Soviet.

SUBMITTED: September 7, 1958